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CIA/TDD/Z-227

Sci - Chemistry

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May 1956

Two Cases of Natural Mummification, by D. Derieuk,  
F. Dervieux, 7 pp.

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SLA Tr 57-1616.

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Sci. - Medicine  
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Some Observed Details Concerning the Reef Forms of  
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1937, pp 632-635.

ATS 31K22F  
ATS 88-FJ

Sci  
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Description of the Algae in Tubecularian Limestones,  
by R. Derville.

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pp 487-493.

ATS 32K22F

ATS 89-FJ

Sci  
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New type of Mubecularia at Cricov, Near Kishinev  
[Chisinau] (Bessarabia), (Excerpt); Petrographic  
Study, by S. Gillet, R. Derville.

FRANCE, per, Bull Soc Geol, France, Vol I, (5), 1931, pp  
728-738; pp 721-738

ATS 90-FJ

Sci  
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Observations and Considerations Concerning the  
Genus Eubacularia, P. H. Derville.

FRENCH, per, Bull Soc Geol, France, Vol V, (5),  
1935, pp 621-628.

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ALBANIAN, PER, RINDEA E PARTISE, VOL 12, NO 12,  
1962, PP 36-42.

JPM 17757

REUR - ALBANIA  
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MAR 63

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(NY-6680)

Distribution, in the Blood and Organs, and  
Excretion From the Organism of Polyglucine  
Introduced Into the Blood Stream, by G. V.  
Deryuzh, A. G. Stepanenko, 10 pp.

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Vol XXXIII, No 4, 1961, pp 467-474.

JPBS 10441

Sci - Med

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A DOUBLE MANOMETRIC APPARATUS WITH MAGNETIC STIRRER FOR ANALYZING BLOOD GASES. [1963] 11p. (figs. omitted) 3 refs. FASEB manuscript no. S 107-2.

Order from OTS or SLA \$1.60  
figs. available on loan from OTS

63-19370

Trans. of Voprosy Meditsinskoi Khimii (USSR) 1962, v. 8, no. 1, p. 87-92.

DESCRIPTORS: \*Manometers, \*Blood, \*Gas analysis, Hematology, Medical equipment, Operation, Oxygen, Carbon dioxide.

A description is given of a new model of the Van Slyke manometric apparatus for blood gas analysis. It differs from the conventional model in that two analyses may be run simultaneously in the two extraction re- (Biological Sciences--Biochemistry, TT, v. 10, no. 5) (over)

63-19370

- I. Title: Magnetic stirrers
- I. Derviz, G. V.
- II. Mogilei, L. M.
- III. Kimeral, R. E.
- IV. FASEB S-107-2
- V. Federation of American Societies for Experimental Biology, Washington, D. C.
- VI. Scripta Technica, Inc., Washington, D. C.

1242914

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S-5472

(DC-3082).

Oxygen Insufficiency in Burns and Its Treatment,  
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(Gipoksiya i Oksigenoterapiya, 1958, pp 295-300.

JPRS-L-1988-D

Sci - Med, Physiology  
Feb 60

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THE AERIAL CAMERA. 7p. MTWL: 1085.  
Order from OTS or ETC \$1.55 62-26036

Abstract trans. of Tsentral'nyi Nauchno-Issledova-  
tel'skii Institut Geodesii, Aerofotomel' i Kartografi.  
Trudy. (USSR) 1957, no. 122, p. 71-98.

DESCRIPTORS: \*Aerial cameras, Photographic film,  
\*Optical images, Quality control.

62-26036

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- II. MTWL: 1085
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**APA-TEN Aircraft Camera and Its Tests, by  
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**RUSSIAN, per, Trudy Inst Tsentral'nyy Nauchno-  
Issled Geodesii, Aerom--Yemki i Kartografi, i,  
No 146, 1962, pp 3-15. 9693207**

**FTD-MT-63-3523  
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The Forms of our Movements Against Various Resistances and the Significance of Such Movements for the Perception of Force, by A. Derwort.

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Sci - ~~Physics~~, Medicine 33,719

Jun 1956

The Influence of Fluorospars on the Density  
and Surface Tension of a  $\text{CaO-Al}_2\text{O}_3$  Melt  
and Its Adhesion to Steel, by A. A.  
Deryabin, S. I. Popel.

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Zavedenii. Chernaya Metallurgiya, No 8,  
1964, PP. 5-8  
NTC 69-10557

*A. A. Deryabin*

Sci-Mat  
July 69

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Properties of Aviation Fuels, by D. Ya. Kolmatskiy,  
V. R. Levin, A. A. Deryabin, 10 pp, UNCLASSIFIED

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19 Oct 1954. CIA D-110534.

AF 639485

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Scientific - Fuels

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of the Achievements of Modern Anes-  
thesiology, by O. K. Gavrilov,  
I. I. Deryabin

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Moscow, Feb 1958, pp 39-44

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Jul 58

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Inotropic and Chronotropic Components of Cardiac  
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Cardiac Activity of Dogs at Rest, by L. N.  
Daryabin, 4 pp.

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No 4, 1959, pp 21-23

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The Influence of the Method of Compression on  
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Arterial Pressure, by L. N. Daryabin, 3 p.

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Blood Pressure in the Central Artery of the Tail  
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(DC-2700, '76)

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Deryabin, 7 pp.

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JPRS 8318

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Rupture Strength of Tubular Steel Specimens  
Under Internal Hydrogen Pressure at High  
Temperatures, by N. N. Kolgatin, L. A. Glikman,  
V. P. Teodorovich, V. I. Deryabina.

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No 3, 1959, pp 19-24.

HB 4539

Sci - Chem, Engr

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63-23888

Deryabina, V. M., Kagan, M. S. and others.  
PHYSIOLOGICAL AND DOSIMETRIC INVESTIGATIONS  
OF THE EFFECT OF RADON WATER, GIVEN IN-  
TERNALLY, ON THE GASTRIC SECRETORY FUNCTION.  
[1963] [11]p. 7 refs. FASEB manuscript no. S419-2.  
Order from OTS or SLA \$1.60 63-23888

Trans. of Meditsinskaya Radiologiya (USSR) 1962,  
v. 7, no. 3, p. 39-45.

DESCRIPTORS: \*Radiation effects, \*Radiological  
dosage, \*Secretion, Stomach, \*Radon, Stimulation,  
Water, Physiology.

The integral absorbed dose of radiation obtained by  
three dogs after a single introduction of radon water  
into the stomach in a dose of 250 ml with a radon con-  
centration of 5000 Mache units (1.8  $\mu$ Cl/liter), followed  
by taking food, averaged 18.7 g-rad. Important factors  
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Biology, Washington, D. C.
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Office of Technical Services

CONFERENCE ON INTERNAL USE OF MINERAL WATER IN  
ALIMENTARY AND METABOLIC DISEASES, BY V. N.  
DEK BERTADINA, A. G. SARKYAN, 9 PP

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I LECHENIYA FIZICHESKOY KULTURY, NO 4, 1963,  
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JPRS 21836

SCI-BIOL & MED SCI  
NOV 63

242,119



Investigation of the Interrelations between ~~Frictional~~  
Frictional and Adhesive Forces by the Method of Crossed  
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RUSSIAN, thrice-mo per, Dok Ak Nauk, <sup>555</sup>XCII, No 6, 1953  
p. 1137. <sub>Vol</sub>

HSP 228

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Sci - Physics  
CTS/DEX

Theory of Thermogradient Drying of Films, by  
Deryagin, Goufman, Amelin, Levi.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XCII,  
No 4, p 759.

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Scientific - Physics

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DERYAGUIN, B.

"On the Dependence of the Contact Angle  
on the Microrelief & Roughness of a  
Wetted Solid Surface."

CR LI, No , 46, 361

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DEKAGIN, B.  
FRIDLYAND, R.  
KRYLOVA, V.

New Method for Measuring the Specific Surface of  
Porous Bodies and Powders.

DOKLADY AKADEMII NAUK SSSR, vol 61, 1948, No 4,  
pp 653-6; 1950 words.

CIA/9003029

NH 12-27

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DSIR LUM-237 (loan)

Brutcher No 2779, \$ 3.90

A-15

New Method for Measuring the Specific Surface  
on Porous Substances and Powders, by B. Deriagin,  
E. Fridliand, V. Krylova, 10 pp.

RUSSIAN, per, Doklady Akad. Nauk SSSR, Vol LXI,  
No 4, 1948, pp 653-656.

S.L.A. Tr No R-397

Sci - Physics  
Apr 57

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DSIR Lending Lib Unit (L.A.)

Measurements of the Viscosity of Polymolecular  
Boundary Layers of Liquid by the Method of  
Blowing, Boundary Phases, by B. Deryagin,  
Y. Pichugin, 9 p.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXIII, No 1,  
Pp 53-56.

SLA 59-17402

Sci  
Jan 60  
Vol 2, No 8

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Deryagin, B. and Pichugin, E.  
A NEEDLE PROFILOMETER STUDY OF THE  
OILINESS OF LUBRICANTS. [1961] 3p. 9 refs.  
Order from OTS or SLA \$1.10 61-18352

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus  
(Doklady) de l'Academie des Sciences de l'U.R.S.S.,  
1943, v. 48, p. 259-262.

DESCRIPTORS: \*Lubricants, Lubrication, \*Oils,  
Greases, Viscosity.

The wedging pressure exerted by a film of a lubricant  
on two solid surfaces, between which it is formed, was  
studied by a method based on the use of a needle  
profilometer and involving determination with the aid  
of a diamond needle of the apparent decrease in rough-  
ness resulting from a metal surface being covered with  
a layer of oil. Data for lubricating oils and other  
(Materials--Lubricants, TT, v. 6, no. 10) (over)

61-18352

1. Title: Profilometer
1. Deryagin, B.
- II. Pichugin, E.

Office of Technical Services

Experimental Study of Surface Solvation in  
Developing a Mathematical Theory of Stable  
Lyophilic Colloids, by B. Deryagin, M. Kusakov,  
52 pp.

RUSSIAN, per. Iz Ak Nauk SSSR, Otdel Matemat  
i Yestestvennikh Nauk, 1937, pp 1119-1150.  
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FTD-TT-62-1564

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Sci-Phys  
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Deryagin, B.  
ON THE DAMPING AND DISPERSION OF SEISMIC  
WAVES. [1962] 20p. 26 refs.  
Order from OTS or SLA \$1.60

62-20298

Trans. of Zhurnal Geofiziki (USSR) 1931, v. 1,  
p. 207-222.

DESCRIPTORS: \*Seismic waves, Damping, Propagation.

A theory of seismic-wave propagation is developed on  
the basis of Boltzmann's theory of elastic post-action.  
The theory leads to damping and dispersion of seismic  
waves, in agreement with observation. In the conclu-  
sion an application of the principle of conservation of  
momentum to pulse propagation, is given. (Author)

(Earth Sciences--Seismology, TT, v. 9, no. 12)

62-20298

1. Title: Dispersion  
1. Deryagin, B.

Office of Technical Services

Experimental Investigation of Solvation of  
Surfaces and Its Application to the Development  
of a Mathematical Theory of Lyophile Colloids,  
by B. Deryagin, M. Kusadov.

RUSSIAN, per, Iz Otdel Matemat i Estereestvennikh  
Nauk, Ak Nauk SSSR, 1937, pp 1119-1150.

\*FTD-TT-62-1504

Sci  
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Kinetics of Evaporation of Liquid Drops Covered  
by an Insoluble Film of a Foreign Substance, by  
E. B. Deryagin, S. P. Bakanov, Yu. S. Kurgin,  
4 pp.

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RUSSIAN, *rev. Kolloid Zhur*, Vol XLIII, No 3,  
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Sci  
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The Flow Method of Ultramicroscope Measurement of  
the Particle Concentration of Aerosols and Other  
Dispersion Systems, by G. Vlasenko, B. E. Dorofagin,  
4 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol  
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Scientific - Physics

Jan 55 CTS/DEX

Film Coating Theory, the Physical  
Chemistry of Coating Thin Layers on a  
Moving Support, by B. M. Deryagin,  
S. M. Levi.  
RUSSIAN, bk, 1964.  
The Focal Press, London  
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*B. M. Deryagin*

Sci-Chem  
May 66

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Total Mirror Reflection of Molecules at Small  
Angles of Incidence and Its Influence on Molecular  
Flow of Gas in Very Narrow Capillaries, by  
B. V. Deryagin, N. N. Fedyaikin, 17 pp.  
RUSSIAN, rpt. AN SSSR, Institut Fizicheskoy Khimii,  
Sbornik Dokladov na Vsesoyuznyy Konferentsii, 1964,  
pp 244-257. F100168268-V  
NTID-HT-23-786-67

BV Deryagin

Sci/Phys  
Aug 68

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Rectangular Wilson Chamber With Bilateral  
Expansion, by V. G. Kirillov-Ugriusov, V. M.  
Federov, B. N. Derjagin, 4 pp.

RUSSIAN, bimo per, Zhur Skaper i Teorst Fiz,  
Vol XXVIII, May 1955, pp 603-607. CIA C 40837

American Inst of Physics  
37 East 55 St.  
New York 22, N. Y.

Scientific - Physics

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On the Mass Spectrum of Charged Cosmic Ray  
Particles, by A. I. Alikhanian, N. V. Shostakovich,  
A. T. Dadayian, V. H. Fedorov, B. H. Deriagin,  
14 pp.

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Vol XXXI, No 6, Dec 1956, pp 955-

Amer Inst of Phys  
Sov Phys, JETP  
Vol IV, No 6

Sci - Physics  
Aug 57

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(NY-5217)

Filament Trigger-Stabilizer for Radio Power  
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Deryabin, 6 pp.

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JPRS 7086

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TT-65-26420

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Derragin, B. V.; Levi, S. M.  
KINETISCHE BEVOCHTING BIJ HET GIETEN EN  
METHODE VOOR ZIJN METING (Kineticheskoe  
Smatsivanie pri Polive i Sposob Ego Izmereniya). Tr.  
by J. Van Laere. 8p. CBT-III-12.  
Order from CBT as CBT-III-12

Trans. in Dutch of Zhurnal Nauchnoi i Prikladnoi Fotografii  
i Kinematografii (USSR) v1 n5 p354-8 1956.  
Another trans. is available in English from LC or SLA  
m\$1.80, pb\$1.80 as TT-61-13343, DSIR LLU M.1962,  
1960, 8p.

1. Centre Belge de Traductions  
Brussels (Belgium)

European Translations Centre

Adhesion of Particles to a Plane Surface.  
Adhesion in an Aqueous Medium, by  
A. D. Zimon, B. V. Deryagin, 5 pp.

RUSSIAN, per, Kolloidnyi Zhur, Vol XXV, No 2,  
Mar, Apr, 1963, pp 159-164.

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The Basic Laws of the Movement of Water in Soil  
Having Different Moisture Contents, by B. V.  
Daryagin and P. S. Kolyasov, 11 pp.

RUSSIAN, Gidrotekh i Melio, Vol 2, No 2, 1950,  
pp 3-12.

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Sci-Physics

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61-22023

Deryagin, B. V. and Zorin, Z. M.  
INVESTIGATION OF SURFACE CONDENSATION  
AND ADSORPTION OF VAPOR CLOSE TO SATURA-  
TION BY AN OPTICAL MICROPOLARIZATION  
METHOD, I. [1961] 10p.  
Order from ATS \$19.30

ATS-18N49R

Trans. of Zhur[nal] Fiz[ichekoy] Khim[i] (USSR)  
1955, v. 29, no. 6, p. 1010-1019.

1. Vapors--Condensation
2. Vapors--Adsorption
3. Surfaces--Adsorptive properties

- I. Deryagin, B. V.
- II. Zorin, Z. M.
- III. ATS-18N49R
- IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

(Chemistry--Physical, TT, v. 5, no. 10)

Deryagin, B. V., Gol'danskiy, V. I., and  
Karasev, B. V.  
STUDY OF POLYMOLECULAR ADSORPTION AND  
CONDENSATION OF VAPOR ON GLASS BY AN  
OPTICAL METHOD. [1961] 4p.  
Order from ATS \$8.70                      ATS-17N49R

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1947,  
v. 57, no. 7, p. 697-700.

(Chemistry--Physical, TT. v. 5, no. 10)

61-12997

1. Vapors--Adsorption
2. Vapors--Condensation
3. Glass--Adsorptive  
properties
- I. Deryagin, B. V.
- II. Gol'danskiy, V. I.
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- IV. ATS-17N49R
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Office of Technical Services

61-13798

Deryagin, B. V.  
THE THEORY OF AEROSOL FORMATION ON  
CONDENSATION NUCLEI (Teoriya Obrazovaniya  
Aerozoley na Yadrakh Kondensatsii). 19 Sep 60, 12p.  
4 refs. Trans. V-1613.  
Order from LC or SLA ml\$2.40, ph\$3.30 61-13798

Trans. of mono. Aerozoli v Sel'skom Khozyaystve,  
Moscow, 1956, p. 8-14.

An examination is made of condensation on non-soluble nuclei and on nuclei soluble in a liquid. It was found that, for polar substances on even surfaces the vapor adsorption isotherm cuts the vapor tension isotherm, and new liquid phase formation occurs in certain instances by an intermittent process of two-dimension nucleus formation. The liquid phase forms a marginal angle distinct from zero. The mechanism of vapor condensation on incompletely wetted particles was analyzed and it was found that the introduction of vapors of certain organic liquids may change the (Chemistry--Physical, TT, v. 5, no. 8) (over)

1. Aerosols--Condensation
2. Aerosols--Production
3. Title: Condensation nuclei
1. Deryagin, B. V.
- II. Trans-V-1613

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The Kinetics of the Attachment of Mineral Particles to Bubbles During Flotation. II. The Electric Field of a Moving Bubble when the Surface Activity of the Ionogenic Substance is High, by B.V. Deryagin, S.S. Dukhin, V.A. Lisichenko, 3 pp.

RUSSIAN, per, Zhur Fiz Khim, No 3, 1960, pp 524-529.

Cleaver-Hume Press

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Sci  
Jan 61



An Investigation of the Interaction of Crossed Polarized Metallic Filaments in Electrolytic Solutions for the Simulation of Coagulation Effects, and the Determination of Null-Charge Potentials and the Van Der Waals' Force Constant, by T. N. Voropayeva, B. V. Deryagin, B. N. Kabanov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXVIII, No 5, 1959, pp 981-984.

Consultants Bureau

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A Study of Capillary Osmosis in Cases, by B. V.  
Deryagin, G. A. Batova, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXVIII, No 2,  
1959, pp 323-325.

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CSIR 141

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Aug 60

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Condensation Method of Dust Separation for Precipitation of Mining Dust, by B. V. Deryagin, M. L. Mikhelson.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Met Topliva, No 2, 1959, pp 124-138.  
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BISI 1883

Sci- Engr

129,119

Oct 60

The Effective Size of the Spreading Angle During  
Impregnation of Porous Bodies and a Method for Its  
Evaluation, by B. V. Deryagin, M. K. Melnikova,  
V. I. Krylova, 6 pp.

RUSSIAN, bimo, <sup>per</sup>Kolloid Zhur, Vol XIV, No 6,  
(Nov-Dec), 1952, pp 423-427.

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Scientific - Chemistry

Mar 54

1928  
CTS/DEX

61-15716

Deryagin, B. V., Zakhavayeva, N. N. and others.  
THE PERMEATION METHOD FOR DETERMINING  
THE SPECIFIC SURFACE OF POROUS BODIES  
(Fil'tratsionnyy Metod Opredeleniya Udel'noy  
Poverkhnosti Poristyykh Tel) ed. by M. M. Dubinin.  
Jan 61 [22]p. 29 refs. RTS 1684.  
Order from LC or SLA ml\$2.70, ph\$4.80 61-15716

Trans. from mono. Metody Issledovaniya Struktury  
Vysokodispersnykh i Poristyykh Tel (Trudy Vtorogo  
Soveshcheniya 13-18 Iyunya 56 G.) Moscow, 1958.

1. Porous materials--Surface area
2. Powders--Surface area
- I. Deryagin, B. V.
- II. Zakhavayeva, N. N.
- III. Dubinin, M. M.
- IV. RTS-1684
- V. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services

(Materials, TT, v. 5, no. 9)

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The Crossed Polarized Metallic Thread Method for  
Determining Zero Charge Points, by E. H. Voropneva,  
B. V. Deryagina, SPP

RUSSIAN, POC, Iz Ak Nauk SSSR, Otdel Khim Ecol, No 1,  
1963, pp 257-262.

CB

Sci  
15 Jan 64

246, 025

The Correct Form of the Equation of Capillary  
Condensation in Porous Bodies and Its Appli-  
cation to the Determination of Their Structure  
from Adsorption and Sorption Iso-  
therms, and to the Solution of the Reverse  
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